ORDER NO. SD83012370C8

Service Manual

Honeycomb Disk Speaker System

SB-X700 (K)

[E],[EG],[EK],[EF],
[EB],[EH],[Ei],[XA]

* The black type model is indicated by (K) in the Service Manual.

Areas

* [E] is available in Scandinavia and Switzerland.
* [EG] is available in F.R. Germany.
* [EK] is available in United Kingdom.
* [EF] is available in France.
* [EB] is available in Belgium.
* [EH] is available in Holland.
* [Ei] is available in Italy.
* [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.

Specifications

(Specifications are subject to change without notice for further improvement.)
Weight and dimensions shown are approximate.

Type:	3 way 3 speaker bass-reflex system
Speakers:	Woofer: 30 cm, Honeycomb Disc Midrange: 8 cm, Honeycomb Disc Tweeter: 2.8 cm, Honeycomb Disc
Impedance:	8 ohms
Input Power:	180 W, Music 90 W, DIN
Output Sound Pressure Level:	90 dB/W (1.0 m)
Crossover Frequency:	1,000 Hz, 4,000 Hz
Frequency Range:	30 Hz ~ 33 kHz (−16 dB) 39 Hz ~ 30 kHz (−10 dB)
Dimensions:	38.0(W) x 67.0(H) x 32.7(D) cm
Weight:	16.5 kg

TECHNISCHE DATEN

(Spezifikationen können infolge von Verbesserungen ohne Ankindigung geändert werden.)

Typ:	3-Weg-System mit 3 Baßreflex-Lautsprechern
Lautsprecher:	Tieftonlautsprecher: 30 cm, Wabenscheibe Mitteltonlautsprecher: 8 cm, Wabenscheibe Hochtonlautsprecher: 2,8 cm, Wabenscheibe
Impedanz:	8 ohm
Belastbarkeit:	180 Watt Musik 90 Watt DIN
Abgegebener Schalldruckpegel:	90 dB/W (in 1,0 m Abstand)
Überschneidung-frequenz:	1.000 Hz, 4.000 Hz
Frequenzbereich:	30 Hz ~ 33 kHz (−16 dB) 39 Hz ~ 30 kHz (−10 dB)
Abmessungen:	38,0(B) x 67,0(H) x 32,7(T) cm
Gewicht:	16,5 kg

CARACTERISTIQUES

(Sujet à changement sans préaris.)

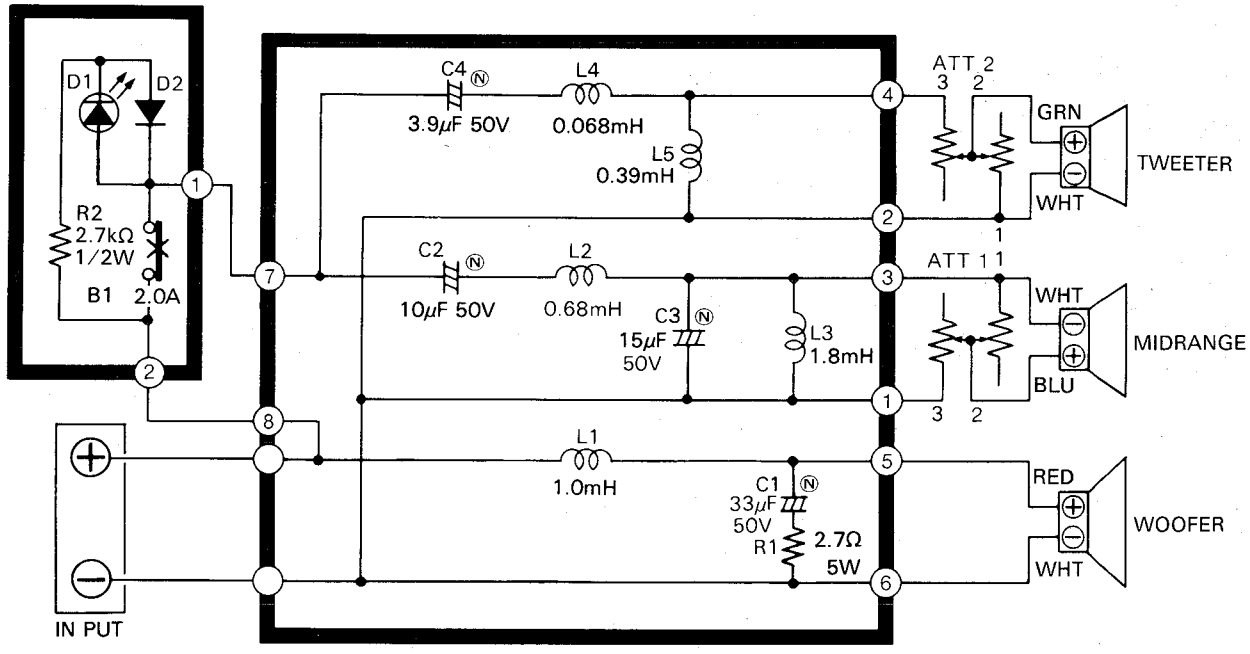
Type:	3 voies, 3 haut-parleurs, bass-reflex
Haut-parleurs:	graves: 30 cm, disque alvéolé moyennes: 8 cm, disque alvéolé aigus: 2,8 cm, disque alvéolé
Impédance:	8 ohms
Puissance d'entrée:	180 watts, musique 90 watts, DIN
Niveau de pression sonore de sortie:	90 dB/W (1,0 m)
Fréquence de commutation:	1.000 Hz, 4.000 Hz
Gamme de fréquences:	30 Hz ~ 33 kHz (−16 dB) 39 Hz ~ 30 kHz (−10 dB)
Dimensions:	38,0(l) x 67,0(h) x 32,7(p) cm
Poids:	16,5 kg

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

■ SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)



Ⓝ: Non polar Capacitor

■ SERVICING METHOD

● How to remove the attenuator

1. Prepare a strong thin thread of about 30 cm.
2. Push the thread in between the panel and the knob by use of an eyeleteer or pincette. (Fig. 1-A)
3. Let the thread be caught by the knob, then pull the thread to remove the knob. (Fig. 1-B)
3. After removing the washer and nut, put your hand into the opening from which the midrange speaker was removed, and then remove the attenuator volume backward.

● How to remove the breaker

1. Remove the attenuator volume. (Refer to "How to remove the attanuator")
2. Remove the setscrews (Fig. 2: ❶—❹) which secure the attenuator panel.
3. Remove the breaker P.C.B. from the attenuator panel, and unsolder the terminals to remove the breaker.

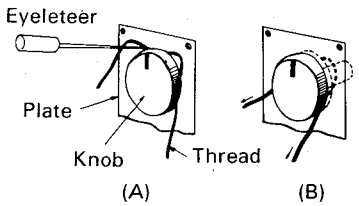


Fig. 1

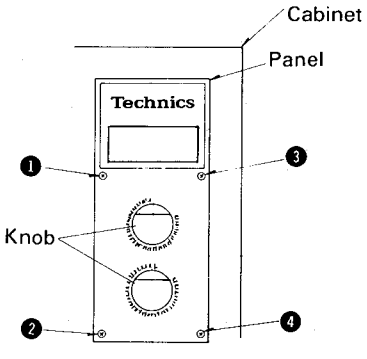
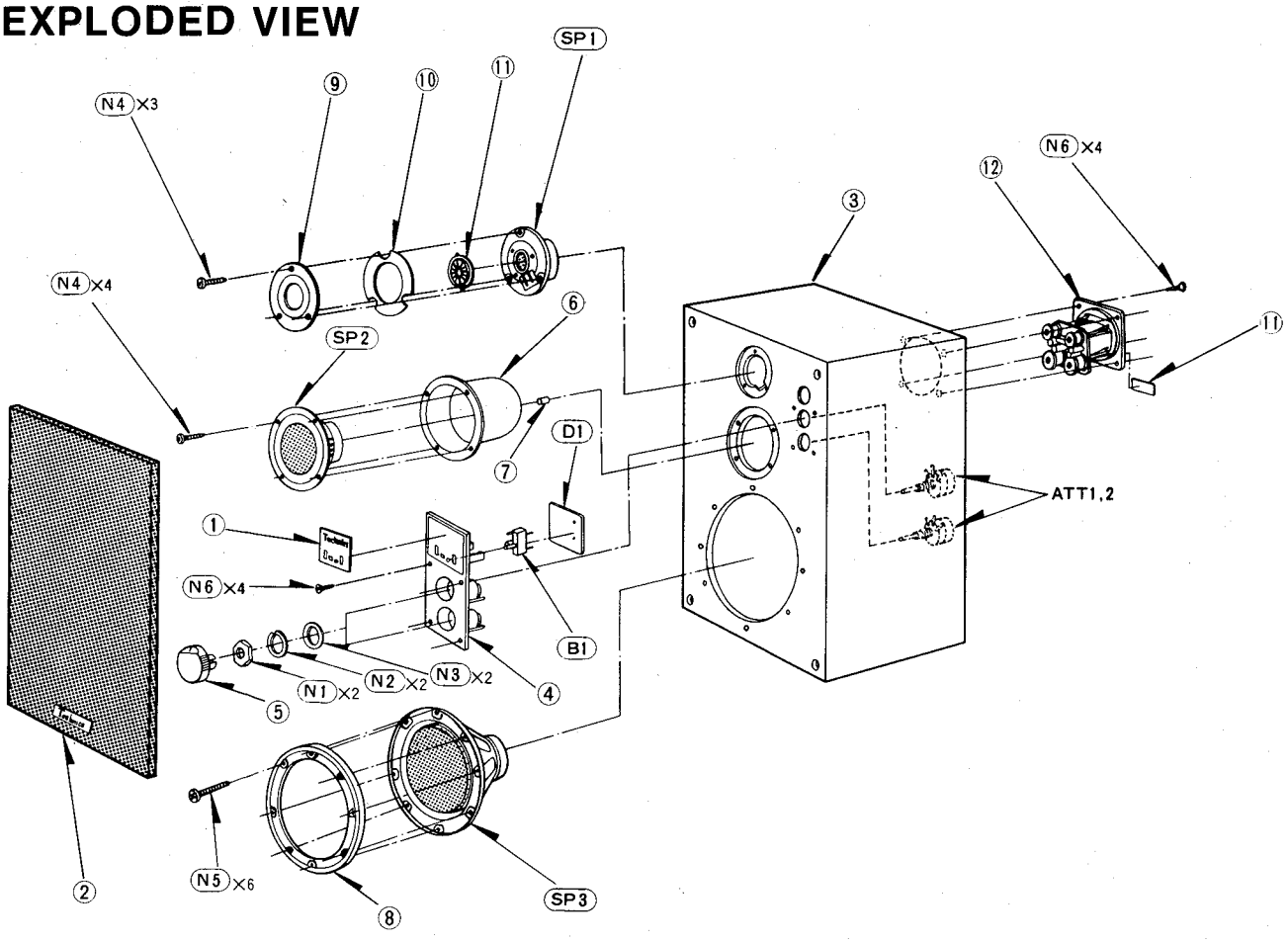


Fig. 2

■ EXPLODED VIEW



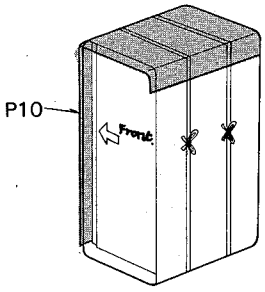
■ REPLACEMENT PARTS LIST

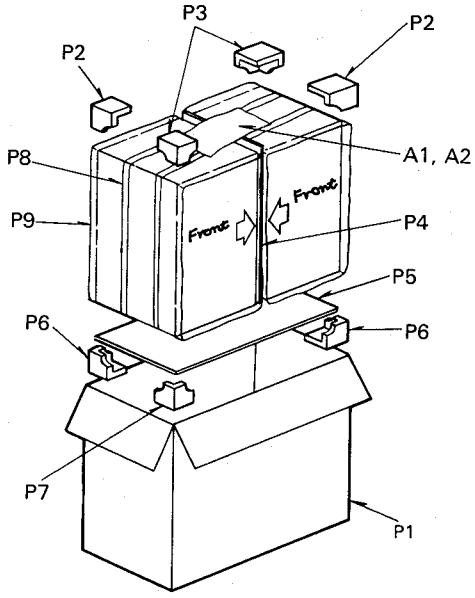
Notes: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. The parenthesized numbers in columns of description stand for the quantity per set.
3. The "S" mark is service standard parts and may differ from production parts.

Ref. No.		Part No.	Part Name & Description	
SPEAKERS				
SP1		SASS3PH01-T	Tweeter	(1)
SP2		SASS8PM01-T	Midrange	(1)
SP3		SASS32PL01-T	Woofer	(1)
COILS				
L1		SLCSA102J	1.0 mH	(1)
L2		SLCSA681K	0.68 mH	(1)
L3		SLCSA182J	1.8 mH	(1)
L4		SLCSA680K	0.068 mH	(1)
L5		SLCSA391J	0.39 mH	(1)
CAPACITORS				
C1		ECEA50Y33K	33 μF, 50 V	(1)
C2		ECEA50Y10K	10 μF, 50 V	(1)
C3		ECEA50Y15K	15 μF, 50 V	(1)
C4		ECEA50Y3R9K	3.9 μF, 50 V	(1)
RESISTORS				
R1		ERF5ZXK2R7	2.7Ω 5 W	(1)
R2		ERD50FJ272	2.7kΩ, 1/2 W	(1)
DIODES				
D1		LN21CPHL	LED	(1)
D2		MA162A	Diode	(1)

Ref. No.		Part No.	Part Name & Description	
BREAKER				
B1		SSBS20AB02-1	Thermal Relay 2.0 A	(1)
ATTENUATOR				
ATT1, 2		SRES2	Attenuator	(2)
CABINET PARTS				
1		SGKS151	Name Plate	(1)
2		SYBS123	Grill	(1)
3		SKABX700KE	Cabinet	(1)
4		SYES40	Panel, Attenuator	(1)
5		SBNS5-1	Knob, Attenuator	(2)
6		SUVS8	Cover, Midrange	(1)
7		SHRS9071	Bushing, Midrange	(2)
8		SGES137	Spacer, Woofer	(1)
9		SYES35-1	Panel, Tweeter	(1)
10		SHRS9075	Spacer, Tweeter	(1)
11		SGES47-1	Equalizer, Tweeter	(1)
12		SJFS4210	Terminal Ass'y	(1)
13		SGTS194	Plate	(1)
SCREWS & WASHERS				
N1		XNGS9C	Nut, Attenuator	(7)
N2	S	XWV9	Washer, Attenuator	(4)
N3	S	XWG9E15FZ	Washer, Attenuator	(8)
N4		SNES9006FJ	Screw, Midrange Tweeter	(2)
N5		SNES9003FZ	Screw, Woofer	(2)
N6		XMS31+D16FZ	Screw, Terminal	(2)

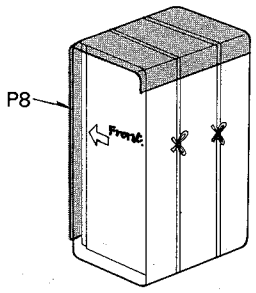
■ PACKINGS

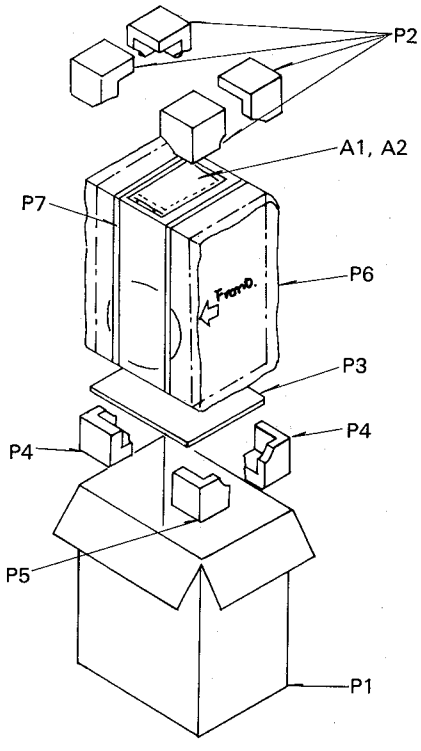




Except for [XA]

Ref. No.		Part No.	Part Name & Description	
ACCESSORY				
A1		SQFS259	Instruction Book	(1)
A2		SWXS189-2	Speaker Cord	(1)
PACKING PARTS				
P1 [E]		SPGS199-2	Carton Box	(1)
P1 [EK]		SPGS199-3	Carton Box	(1)
P1 [EF]		SPGS199-4	Carton Box	(1)
P1 [EG]		SPGS199-5	Carton Box	(1)
P1 [EB]		SPGS199-6	Carton Box	(1)
P1 [EH]		SPGS199-7	Carton Box	(1)
P1 [Ei]		SPGS199-8	Carton Box	(1)
P2		SPSS9021-5	Pad, Corner	(2)
P3		SPSS9021-4	Pad, Corner	(2)
P4		SPSS6233	Pad, Corner	(1)
P5		SPSS6234	Pad, Bottom	(1)
P6		SPSS1004	Pad, Corner	(2)
P7		SPSS1004-1	Pad, Corner	(2)
P8		SPE27	Belt	(2)
P9		SPJS3-1	Polyethylene	(1)
P10		SPHS6050	Sheet	(1)





[XA] only

Ref. No.		Part No.	Part Name & Description	
ACCESSORY				
A1		SQFS259	Instruction Book	(1)
A2		SWXS189-2	Speaker Cord	(1)
PACKING PARTS				
P1 [XA]		SPSS9011	Pad, Top	(4)
P3		SPSS6230	Pad, Bottom	(1)
P4		SPSS1004	Pad, Corner	(2)
P5		SPSS1004-1	Pad, Corner	(2)
P6		SPJS3-1	Polyethylene Bag	(1)
P7		SPE27	Belt	(2)
P8		SPHS6050	Sheet	(1)

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